ELSEVIER

Signal Processing: *Image Communication* 16 (2001) 991–994

SIGNAL PROCESSING: IMAGE COMMUNICATION

www.elsevier.com/locate/image

Cumulative contents of Volume 16

Volume 16, Nos. 1–2, September 2000

F. Periera and P. Salembier
Editorial 1
R. Koenen, F. Pereira
MPEG-7: A standardised description of audiovisual content 5
T. Syeda-Mahmood, D. Petkovic
On describing color and shape information in images 15
P. Wu, B.S. Manjunath, S. Newsam, H.D. Shin
A texture descriptor for browsing and similarity retrieval 33
N. Takahashi, M. Iwasaki, T. Kunieda, Y. Wakita, N. Day
Image retrieval using spatial intensity features 45
S. Jeannin, R. Jasinschi, A. She, T. Naveen, B. Mory, A. Tabatabai
Motion descriptors for content-based video representation 59
H.-K. Kim, J.-D. Kim
Region-based shape descriptor invariant to rotation, scale and translation 87
W.-Y. Kim, Y.-S. Kim
A region-based shape descriptor using Zernike moments 95
E. Paquet, M. Rioux, A. Murching, T. Naveen, A. Tabatabai
Description of shape information for 2-D and 3-D objects 103
W. Zhao, D. Bhat, N. Nandhakumar, R. Chellappa
A reliable descriptor for face objects in visual content 123
N. Dimitrova, L. Agnihotri, C. Dorai, R. Bolle
MPEG-7 *Videotext* description scheme for superimposed text in images and video 137
J.-R. Ohm, F. Bunjamin, W. Liebsch, B. Makai, K. Müller, A. Smolic, D. Zier
A set of visual feature descriptors and their combination in a low-level description scheme 157
P. Philippe
Low-level musical descriptors for MPEG-7 181
A.T. Lindsay, S. Srinivasan, J.P.A. Charlesworth, P.N. Gardner, W. Kriechbaum
Representation and linking mechanisms for audio in MPEG-7 193
P. Salembier, R. Qian, N. O'Connor, P. Correia, I. Sezan, P. van Beek
Description schemes for video programs, users and devices 211
A.B. Benitez, S. Paek, S.-F. Chang, A. Puri, Q. Huang, J.R. Smith, C.-S. Li, L.D. Bergman, C.N. Judice
Object-based multimedia content description schemes and applications for MPEG-7 235
J. Hunter, F. Nack
An overview of the MPEG-7 Description Definition Language (DDL) proposals 271

Volume 16, No. 3, October 2000

S. Kadono, C.S. Boon, M. Etoh
Motion compensation method for moving pictures with binary shape 295
S.C. Brofferio, U.L. Grotto, L. Maderna
Telepresence teaching visual equipment 307

0923-5965/01/$ - see front matter © 2001 Published by Elsevier Science B.V.
PII: S0923-5965(01)00017-0

R. Aldridge, D. Pearson
A calibration method for continuous video quality (SSCQE) measurements 321
H. Luo, A. Eleftheriadis, J. Kouloheris
Statistical model-based video segmentation and its application to very low bit-rate video coding 333

Volume 16, No. 4, November 2000

M. Boninsegna, A. Bozzoli
A tunable algorithm to update a reference image 353
Y.-C. Hu, C.-C. Chang
A new lossless compression scheme based on Huffman coding scheme for image compression 367
F.J. Hampson, J.-C. Pesquet
Motion estimation in the presence of illumination variations 373
H. Hartenstein, D. Saupe
Lossless acceleration of fractal image encoding via the fast Fourier transform 383
D.W. Kang
Two-channel spatial interpolation of images 395
B.-F. Wu, C.-Y. Su
Low computational complexity enhanced zerotree coding for wavelet-based image compression 401

Volume 16, No. 5, January 2001

Papers

Z. Lei, O. Franzen, J. Brakensiek, H. Schröder
Constant modulus algorithm for blind equalization of multipath transmitted video signals in cable networks 413
G. Poggi, A.R. Ragozini
Tree-structured product-codebook vector quantization 421
F. Vermaut, Y. Deville, X. Marichal, B. Macq
A distributed adaptive block matching algorithm: Dis-ABMA 431
K.W. Chan, K.L. Chan
Optimisation of multi-level block truncation coding 445
M.P. Queluz
Authentication of digital images and video: Generic models and a new contribution 461
I. Koprinska, S. Carrato
Temporal video segmentation: A survey 471
C.-Y. Wang, S.-M. Lee, L.-W. Chang
Designing JPEG quantization tables based on human visual system 501

Volume 16, No. 6, February 2001

Papers

P.-H. Chang, J.-J. Leou, H.-C. Hsieh
A genetic algorithm approach to image sequence interpolation 507
P. Campisi, C. Becchetti
Parsimonious texture representation employing binary Gaussian processes and binomial linear prediction 521
W.X. Wang, S.D. Blostein
Video image transmission over mobile satellite channels 531
R. Kouassi, P. Gouton, M. Paindavoine
Approximation of the Karhunen–Loève transformation and its application to colour images 541
J. Fan, J. Yu, G. Fujita, T. Onoye, L. Wu, I. Shirakawa
Spatiotemporal segmentation for compact video representation 553
E. Decencière, B. Marcotegui, F. Meyer
Content-dependent image sampling using mathematical morphology: Application to texture mapping 567
S. Valente, J.-L. Dugelay
A visual analysis/synthesis feedback loop for accurate face tracking 585

Volume 16, No. 7, April 2001

Papers

C. De Vleeschouwer, B. Macq
Content-based and perceptual bit-allocation using matching pursuits 611
C.D. Creusere
Motion-compensated video compression with reduced complexity encoding for remote transmission 627
J.-M. Mas Ribés, B. Simon, B. Macq
Combined Kohonen neural networks and discrete cosine transform method for iterated transformation theory 643
J.-S. Kim, H.W. Park
Adaptive 3-D median filtering for restoration of an image sequence corrupted by impulse noise 657
H.S. Kim, H.W. Park
Wavelet-based moving-picture coding using shift-invariant motion estimation in wavelet domain 669
A.M. Eskicioglu, E.J. Delp
An overview of multimedia content protection in consumer electronics devices 681

Volume 16, No. 8, May 2001

Editorial 701
S.-T. Hsiang, J.W. Woods
Embedded video coding using invertible motion compensated 3-D subband/wavelet filter bank 705
S. Regunathan, R. Zhang, K. Rose
Scalable video coding with robust mode selection 725
E. Rosdiana, H. Azmoodeh, M. Ghanbari
Picture quality optimization in ABR video services 733
R. Puri, K. Ramchandran, K.W. Lee, V. Bharghavan
Forward error correction (FEC) codes based multiple description coding for internet video streaming and multicast . 745
H.-R. Shao, W. Zhu, Y.-Q. Zhang
User-aware object-based video transmission over the next generation internet 763
S. Lavington, N. Dewhurst, M. Ghanbari
The performance of layered video over an IP network 785
A. Kassler, A. Neubeck, P. Schulthess
Classification and evaluation of filters for wavelet coded videostreams 795
L. Atzori, F.G.B. De Natale, F. Granelli
A real-time visual postprocessor for MPEG-coded video sequences 809
T. Zhang, U. Jennehag, Y. Xu
Numerical modeling of transmission errors and video quality of MPEG-2 817

Volume 16, No. 9, June 2001

W.E. Lynch, V. Papadakis, R. Krishnamurthy, T. LeNgoc
Syntax-based error concealment 827
Ç.E. Erdem, A.T. Erdem
An illumination invariant algorithm for subpixel accuracy image stabilization and its effect on MPEG-2 video compression 837
L.L. Winger, A.N. Venetsanopoulos
Biorthogonal nearly coiflet wavelets for image compression 859
Y.-L. Lee, H.W. Park
Loop filtering and post-filtering for low-bit-rates moving picture coding 871
J.T.H. Chung-How, D.R. Bull
Loss resilient H.263+ video over the Internet 891

Volume 16, No. 10, August 2001

M.S. Fu, O.C. Au
Halftone image data hiding with intensity selection and connection selection 909

S. Aïssa, E. Dubois
Robust VB 2D-CELP image transmission over CDMA Rayleigh fading channels 931
I. Celasun, A. Murat Tekalp, M.H. Gökçetekin, D.M. Harmancı
2-D mesh-based video object segmentation and tracking with occlusion resolution 949
E. Sifakis, G. Tziritas
Moving object localisation using a multi-label fast marching algorithm 963
I. Grinias, G. Tziritas
A semi-automatic seeded region growing algorithm for video object localization and tracking 977